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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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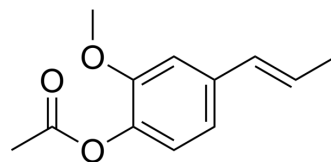
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Isoeugenol acetate

Cat. No.:	HY-N6805
CAS No.:	93-29-8
Molecular Formula:	C ₁₂ H ₁₄ O ₃
Molecular Weight:	206.24
Target:	Cholinesterase (ChE)
Pathway:	Neuronal Signaling
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (484.87 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		4.8487 mL	24.2436 mL	48.4872 mL
		5 mM		0.9697 mL	4.8487 mL	9.6974 mL
		10 mM		0.4849 mL	2.4244 mL	4.8487 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (12.12 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (12.12 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Isoeugenol acetate (Acetyl isoeugenol), an essential oil constituent of nutmeg, clove, and cinnamon, shows excellent inhibitory effects against some metabolic enzymes such as acetylcholinesterase (AChE) enzymes (IC ₅₀ =77 nM; K _i =16 nM), α-glycosidase (IC ₅₀ =19.25 nM; K _i =21 nM), and α-amylase (IC ₅₀ =411.5 nM). Isoeugenol acetate is used medical and cosmetics industries for its antioxidant, anticancer, antimicrobial and anti-inflammatory properties ^{[1][2]} .
IC ₅₀ & Target	AChE

REFERENCES

[1]. Fevzi Topal. Anticholinergic and antidiabetic effects of isoeugenol from clove (*Eugenia caryophyllata*) oil. *International Journal of Food Properties*, 22:1,583-592.

[2]. Hyldgaard M, et al. Isoeugenol has a non-disruptive detergent-like mechanism of action. *Front Microbiol.* 2015 Jul 28;6:754.

Caution: Product has not been fully validated for medical applications. For research use only.

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